EnGenius®

DATASHEET

ESR1221N2

300N Wireless Router

2.4GHz 300Mbps 11N Router/AP

ESR1221N2 is a 300Mbps AP Router offers user unprecedented network performance with economic circuit design. WMM support boosts streaming and multimedia intensive services. Multiple SSID provides advance users to manage multiple users of various needs. TX power control enables flexible transmission tuning for different installation needs and prevents malicious eaves-dropping. Isolation, filter, firewall and full coverage of security standards promise a securer network environment.

Package Contents

- 1* ESR1221N2
- 1*5V/1A Power Adapter
- 1*QIG
- 1*CD (User's Manual)

Software Features			
Router User Interface			
Access method	Web Based (HTTP 1.0 / 1.1)		
Browser Compatibility	Microsoft IE 6.0 or above Sfari 1.2 or above Firefox 2.0 or above		

Status			
System Status	System Information	Y	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	Y	IP Address, Subnet Mack, Default Gateway, DHCP
	Current Wireless Setting	Y	Operation mode, Wireless Mode, Channel/ Frequency, L2 Isolation, MSSID Setting
Client List	List current associated clients. Show only authorized and associated clients		
System Log	Displays a list of events triggered		

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Wireless Functional List			
Operation mode		Y	Router
		Y	WDS
802.11 mode options		Y	b/g/n
Channel setting		Y	Manual
		Y	Auto / Best Channel Selection
Transfer rate setting		Y	Auto and Manual
Output Power Control		Y	High / Medium / Low
Power Saving		Y	Wireless LAN power saving
Multiple BSSID (Multi AP)		Y	4 BSSID for 2.4Ghz
		Y	Each BSSID should has its own WiFi & security settings
WPS		Y	
Security	WEP	Y	WEP(64/128bit)
	WPA/ WPA2	Y	TKIP / AES
	Hidden ESSID	Y	
	MAC address filtering	Y	MAC address filtering (Both in WLAN and LAN), up to 50 field
	L2 Isolation	Y	
	802.1x Authenticator	Y	MD5/ TLS/ TTLS, PEAP (Nice to Have)

Functional List				
LAN Settings			Y	IP (check validity and DHCP server IP range) MAC
DHCP server			Y	DHCP Range, Lease Time, Client list
Router	NAT/ NAPT		Y	
	Port Forwarding		Y	
	Port Mapping		Y	Virtual Server: every single IP should support more than one service port (UI forbids that)
	Port Tagging		Y	
	ALG		Y	FTP and Popular network applications
	VPN	VPN pass-thru	Y	

	Filtering	URL	Y	URL-Keyword blocking
		IP	Y	IP Filtering with scheduling function
		Port	Y	TCP / UDP
		ICMP	Y	
	Block Ping From WAN		Y	Enable / Disable option box
	DMZ		Y	Multiple DMZ records
Dynamic DNS			Y	
MAC Clone			Y	Clone WAN port MAC supported / Change in WAN side MAC address
WAN side form	PPPoE		Y	PAP/CHAP
			Y	Always (keep trying if fail)
			Y	On demand / Manual
			Y	Idle Time Out(disconnect if idled for a certain time)
	DHCP Client		Y	
	PPTP		Y	PAP/CHAP
			Y	Always (keep trying if fail)
			Y	On demand / Manual
			Y	Idle Time Out(disconnect if idled for a certain time)
	Fixed IP		Y	
	L2TP		Y	
Administration			N	User Name
			Y	Password
			Y	Confirmed Password
Remote Login			Y	Customizable Port Default 8080
Backup/ Restore Setting			Y	Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade			Y	Firmware Upgrade Allow User to decide to Keep current setting or reset to default.
UPnP			Y	
Diagnosis			Y	Address to Ping :

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Technical Specifications	
Hardware Specifications	
MCU	RTL8196C+8192CE
Memory	16MB SDRAM
Flash	2MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: 1 x 10/100 Fast Ethernet RJ-45
	LAN: 4 x 10/100 Fast Ethernet RJ-45
	Rest button
	Power Jack
	WPS (WiFi Protected Setup)
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)
	Device: 5V/1A

Wireless Specifications	
Frequency Band	2.400～2.484 GHz(11b, 11g, 11n)
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operating Channels	11 for North America, 14 for Japan, 13 for Europe
Wireless Setting	Operation Mode – AP / Router Wireless Mode – 11b/ 11g /11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate - 11n only ,11b/g/n mix ,11b only ,11b/g
Receive Sensitivity (Typical)	2.412 ~ 2.472 GHz (11b) ≦ -90 dBm 2.412 ~ 2.472 GHz (11g) ≦ -90 dBm 2.412 ~ 2.472 GHz (11n) ≦ -82 dBm

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Available transmit power	2.412 ~ 2.472 GHz(11b) up to 18 dBm 2.412 ~ 2.472 GHz (11g) up to 16 dBm 2.412 ~ 2.472 GHz (11n) up to 16 dBm
Antenna	Fixed 2dBi Antenna x 2 (white)

Environment & Mechanical	
Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15%～95% typical
Dimensions	125mm (L) x 98mm (W) x 25mm (H)